



United States Industry Coalition, Inc.



# Development of Recombinant Luciferase, and related Reagents for Use in Portable Light Detection Instruments



- Goal: To provide state of the art reagents for bioluminescence-based test procedures for measuring food safety and water quality.
- The Russians have developed techniques for cloning an enzyme from native firefly “*Luciola mingrelica* luciferase”.
- These new recombinant and genetically engineered luciferase reagents allow for inexpensive and rapid methods for measuring bacterial contamination.
- The new rapid response antibody-based diagnostic system allows for the detection of specific pathogens.

## Commercialization Started



New Horizons Diagnostics Corporation  
Columbia, MD



Gamaleyn Institute of Epidemiology and  
Microbiology  
Moscow, Russia



Pacific Northwest National Laboratory  
Richland, WA